

Referințe

- [5DT, 2004] Fifth Dimension Technologies Company, web server: www.5dt.com
- [Aaronson, 2003] L. S. Aaronson, L. Pallikkathayil, F. Crighton, *A qualitative investigation of fatigue among healthy working adults*, Western Journal of Nursing Research, vol. 25, nr. 4, pp. 419-433, 2003
- [Akagi, 1994] H. Akagi, *Trends in active power conditioners*, IEEE Transactions on Power Electronics, vol. 9, nr. 3, pp. 263-268, 1994
- [Alexa, 1998] D. Alexa, *Single – phase inverter with ZVS capacitors connected on the DC side and the load in parallel with the resonance inductance*, Electrical Engineering, vol. 81, pp. 109-116, 1998
- [Alexa, 1999] D. Alexa, *Combined filtering system consisting of passive filter with capacitors in parallel with diodes and low-power inverter*, IEE Proceedings on Electric Power Applications, vol.146, nr. 1, 1999, pp. 88-94, 1999
- [Alexa, 2000] D. Alexa, A. Lazar, *Optimization of PWM techniques with partially constant modulating waves*, Electrical Engineering, vol. 82, nr. 5, pp. 263-272, 2000
- [Alexa, 2001] D. Alexa, *Three-phase rectifier with almost sinusoidal input current*, Electronics Letters, vol. 37, nr. 19, pp. 1148 -1149, 2001
- [Alexa, 2004a] D. Alexa, A. Sirbu, **D. M. Dobrea**, T. Goras, *Topologies of three-phase rectifiers with near sinusoidal input currents*, IEE Proceedings - Electric Power Applications, vol. 151, nr. 6, pp. 884-891, ISSN 1350-2352, 2004
- [Alexa, 2004b] D. Alexa, A. Sirbu, **D. M. Dobrea**, *An analysis of three-phase rectifiers with near sinusoidal input currents*, IEEE Transactions on Industrial Electronics, vol. 51, nr. 4, pp. 884-891, ISSN 0278-0046, 2004
- [Alpaydin, 2002] G. Alpaydin, G. Dündar, S. Balkir, *Evolution-based design of neural fuzzy networks using self-adapting genetic parameters*, IEEE Transactions On Fuzzy Systems, vol. 10, nr. 2, pp. 211-221, 2002
- [Amjad, 1997] A. M. Amjad, D. M. Halliday, J. R. Rosenberg, B. A. Conway, *An estended difference of coherence test for comparing and combining several independent coherence estimates: theory and application to the study of motor units and physiological tremor*, Journal of Neuroscience Methods, vol. 73, pp. 69-79, 1997
- [Anouti, 1995] A. W. Anouti, C. Koller, *Tremor disorders. Diagnosis and management*, The Western Journal of Medicine, Vol. 162, nr. 6, pp. 510-513, 1995
- [Ark, 1999] W. Ark, D. Dryer, D. Lu, *The emotion mouse*, Proceedings of 8th International Conference on Human-Computer Interaction, Vol. 1, New Jersey, SUA, pp. 818-823, 1999
- [Aiyar, 2001] H. Aiyar, J. T. Mortimer, *Diaphragm pacing for chronic respiratory insufficiency*, pp. 301-346, capitol în cartea *Intelligent systems and technologies in rehabilitation engineering*, editată de H. N. Teodorescu, L. C. Jain, CRC Press, 2001
- [Baker, 1985] J. E. Baker, *Adaptive selection methods for genetic algorithms*, In Proceeding of the 1st International Conference on Genetic Algorithms, pp. 101-111, 1985.
- [Baker, 1987] J. E. Baker, *Reducing bias and inefficiency in the selection algorithm*, Proceedings of the Second International Conference on Genetic Algorithms, pp. 14-21, 1987

- [Bäck, 1994] T. Bäck, *Selective pressure in evolutionary algorithms: A characterization of selection mechanisms*, Proceeding 1st IEEE Conference on Evolutionary Computation, IEEE Press, pp. 57- 62, 1994
- [Beasley, 1993a] D. Beasley, D. R. Bull, R. R. Martin, *An overview of genetic algorithms: Part 1, Fundamentals*, University Computing, vol. 15, nr. 2, pp. 58-69, 1993
- [Beasley, 1993b] D. Beasley, D. R. Bull, R. R. Martin, *An overview of genetic algorithms: Part 2, Research topics*, University Computing, vol. 15, nr. 4, pp. 170-181, 1993
- [Beasley, 1993c] D. Beasley, D. R. Bull, R. R. Martin, *Reducing epistasis in combinatorial problems by expansive coding*, Proceedings of 5th International Conference on Genetic Algorithms, pp. 400-407, 1993
- [Bertoluzzo, 2003] M. Bertoluzzo, G. S. Buja, S. Castellan, P. Fiorentin, *Neural network technique for the joint time-frequency analysis of distorted signal*, IEEE Transactions on Industrial Electronics, vol. 50 , nr. 6, pp. 1109-1115, 2003
- [Becheiraz, 1998] P. Becheiraz, D. Thalmann, *A behavioral animation system for autonomous actors personified by emotions*, In Proceeding of the 1st Workshop on Embodied Conversational Characters, Lake Tahoe, California, pp. 57-65, 1998
- [Bergson, 1992] H. Bergson, *Eseu asupra datelor imediate ale conștiinței*, Institutul European, Iași, pp. 33, 1992
- [Bethke, 1981] A. D. Bethke, *Genetic algorithms as functions optimisers*, Doctoral dissertation, University of Michigan, Dissertation Abstracts International 41(9), 3503B
- [Blickle, 1995] T. Blickle, L. Thiele, *A comparison of selection schemes used in genetic algorithms*, Swiss Federal Institute of Technology, TIK-Report, Nr.11, 2nd Version, 1995
- [Booker, 1987] L. Booker, *Improving search in genetic algorithms*, In Genetic Algorithms and Simulated Annealing, pp. 61-73, 1987
- [Bose, 1992] B. K. Bose, *Power electronics – A technology review*, Proceedings of IEEE, vol. 80, nr. 8, pp. 1303-1334, 1992
- [Böhler, 2001] W. Böhler, G. Heinz, A. Marbs, *The potential of non-contact close range laser scanners for cultural heritage recording*, Proceedings of CIPA International Symposium, 2001, Potsdam, Germany, documentul se poate descărca de la adresa: <http://cipa.icomos.org/papers/2001/2001-11-wb01.pdf>
- [Braham, 1997] R. Braham, R. Comerford, *Sharing virtual worlds*, IEEE Spectrum, March 1997
- [Bramlette, 1991] M. F. Bramlette, *Initialization, mutation and selection methods in genetic algorithms for function optimization*, In Proceeding of the 4th International Conference on Genetic Algorithms, pp. 100-107, 1991
- [Brezulianu, 2002] A. Brezulianu, *Sisteme fuzzy și aplicații*, Ed. Tehnici și Tehnologii, Iași, 2002
- [Brown, 1994] B. H. Brown, D. C. Barber, A. H. Morice, A. D. Leathard, *Cardiac and respiratory related electrical impedance changes in the human thorax*, IEEE Transactions on Biomedical Engineering, vol. 41, nr. 8, pp. 729-734, 1994
- [Burdea, 1993] G. Burdea, P. Coiffet, *La réalité virtuelle*, Hermès, Paris, pp. 5-44, ISBN: 2-86601-386-7, 1993
- [Burdea, 1999] G. Burdea, G. Patounakis, V. Poescu, R. E. Weiss, *Virtual reality-based training for the diagnosis of prostate cancer*, IEEE Transactions on Biomedical Engineering, vol. 46, nr. 10, pp. 1253-1260, 1999

- [Burdea, 2000] G. Burdea, V. Popescu, V. Hentz, K. Colbert, *Virtual reality-based orthopedic telerehabilitation*, IEEE Transactions on Rehabilitation Engineering, vol. 8, nr. 3, pp. 430-432, 2000
- [Bültmann, 2002] U. Bültmann, I. J. Kant, C. A. P. Schröer, S. V. Kasl, *The relationship between psychosocial work characteristics and fatigue and psychological distress*, International Archives of Occupational and Environmental Health, vol. 75, nr. 4, pp. 259-266, 2002
- [Cardoso, 1997] J. F. Cardoso, *Infomax and maximum likelihood for blind source separation*, IEEE Signal Processing Letters, vol. 4, pp. 109-111, 1997
- [Caponetto, 2003] R. Caponetto, L. Fortuna, S. Fazzino, M. G. Xibilia, *Chaotic Sequences to Improve the Performance of Evolutionary Algorithms*, IEEE Transactions on Evolutionary Computation, vol. 7, nr. 3, pp. 289-304, 2003
- [Caruana, 1988] R. A. Caruana, J. D. Schaffer, *Representation and hidden bias: Gray vs. binary coding for genetic algorithms*, In Proceedings of the 5th International Conference on Machine Learning, San Mateo, pp. 153-161, July, 1988
- [Caruana, 1989] R. A. Caruana, L. A. Eshelman, J. D. Schaffer, *Representation and hidden bias II: Eliminating defining length bias in genetic search via shuffle crossover*, In Eleventh International Joint Conference on Artificial Intelligence, vol. 1, pp. 750-755, 1989.
- [CDC&P, 1998] Centers for Disease Control and Prevention, *Assessment of infant sleeping position – selected states, 1996*, Morbidity and Mortality Weekly Report, vol. 47, nr. 41, pp. 873-877, 1998
- [Chalder, 1993] T. Chalder, G. Berelowitz, T. Pawlikowska, L. Watts, S. Wessely, D. Wright, E. P. Wallace, *Development of a fatigue scale*, Journal of Psychosomatic Research, vol. 37, pp. 147-153, 1993
- [Chengjun, 2004] L. Chengjun, *Gabor-based kernel PCA with fractional power polynomial models for face recognition*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 26, nr. 5, pp. 572-581, 2004
- [Chipchase, 2003] S. Y. Chipchase, N. B. Lincoln, K. A. Radford, *Measuring fatigue in people with multiple sclerosis*, Disability and Rehabilitation, Jul 22, vol. 25, nr. 14, pp. 778-84, 2003
- [Chung, 1999] D. W. Chung and S.K. Sul, *Minimum-loss strategy for three-phase PWM rectifier*, IEEE Transactions on Industrial Electronics, vol. 46, nr. 3, pp. 517-526, 1999
- [CIA, 2002a] Serverul Web al Central Intelligence Agency
http://www.cia.gov/nic/pubs/other_products/inf_diseases_paper.html
- [CIA 2002b] Serverul Web al Central Intelligence Agency,
http://www.cia.gov/cia/publications/factbook/fields/life_expectancy_at_birth.html
- [Claire, 1998] T. N. Claire, D. Beroule, J. P. Tassin, *A functional model of some Parkinson's disease symptoms using a guided propagation network*, Artificial Intelligence in Medicine, vol. 14, pp. 237-258, 1998
- [Clot, 2002] D. Clot, *Using functional PCA for cardiac motion exploration*, Proceedings of the IEEE International Conference on Data Mining, Maebashi, Japan, pp. 91-98, 9-12 decembrie 2002
- [Cohen, 1997] K. P. Cohen, W. M. Ladd, D. M. Beams, W. S. Sheers, R. G. Radwin, W. J. Tompkins, J. G. Webster, *Comparison of impedance and inductance ventilation*

- sensors on adults during breathing, motion, and simulated airway obstruction*, IEEE Transactions on Biomedical Engineering, vol. 44, nr. 7, pp. 555-566, 1997
- [Colin, 2005] <http://www.cs.ukc.ac.uk/people/staff/cgj/pages/research.html> - Colin Johnson Research Page
- [Connor, 2001] Gregory S. Connor, William G. Ondo, Mark A. Stacy, *Essential tremor: a practical guide to evaluation, diagnosis and treatment*, Clinician, vol. 19, nr. 2, pp. 1-13, 2001
- [Contreras, 1998] J. L. Contreras-Vidal, P. Poluha, H. L. Teulings, G. E. Stelmach, *Neural dynamics of short and medium-term motor control effects of levodopa therapy in Parkinson's disease*, Artificial Intelligence in Medicine, vol. 13, pp. 57-79, 1998
- [Coulon, 1996] F. de Coulon, E. Forte, D. Mlynek, H. N. Teodorescu, S. Suceveanu, *Subject-state analysis by computer and applications in CAE*, In Proceeding of the International Conference on Intelligent Technologies in Human-Related Sciences, July 5-7, Leon, Spain, pp. 243-250, 1996
- [Cornellier, 1987] V. Cornellier, T. K. Ziegler, *Biomonitoring stress management method and device*, Patent Nr. 4,683,891, United States, data publicării: 4 august 1987
- [Damasio, 1994] A. R. Damasio, *Descarte's error: emotion, reason and the human brain*, New York, Gosset/Putnam Press, 1994
- [Davidor, 1990] Y. Davidor, *Epistasis variance: Suitability of a representation to genetic algorithms*, Complex Systems, vol. 4, pp. 369-383, 1990
- [Davis, 1989] L. Davis, *Adapting operator probabilities in genetic algorithms*, In Proceeding of the 3rd International Conference on Genetic Algorithms and Their Applications, San Mateo, California, pp. 61-69, 1989
- [Davis, 1991] L. Davis, *Bit climbing, representational bias and test suite design*, Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 18-23, 1991
- [Dănilă, 2002] L. Dănilă, M. Golu, *Tratat de neuropsihologie*, Editura medicală, Bucureşti, România, Vol. 1, ISBN 973-39-0397-3, 2002
- [Deb, 1991] K. Deb, D. E. Goldberg, *Analyzing deception in trap functions*, Technical Report IlliGal 91009, Illigal, December 1991
- [De Jong, 1975] K. A. De Jong, *An analysis of the behavior of a class of genetic adaptive systems*, Doctoral dissertation, University of Michigan, Dissertation Abstracts International 36(10), 5140B, 1975
- [DEX, 1998] Dicționarul Explicativ al Limbii Române, Academia Română, Institutul de Lingvistică "Iorgu Iordan", pp. 572, 1998
- [Deuschl, 1998] G. Deuschl, P. Bain, M. Brin, *Consensus statement of the movement disorder Society on tremor*, Movement Disorder, Vol. 13, pp. 2-23, 1998
- [Diamantaras, 1999] K. I. Diamantaras, K. Hornik, M. G. Strintzis, *Optimal linear compression under unreliable representation and robust PCA neural models*, IEEE Transactions on Neural Networks, vol. 10, nr. 5, pp. 1186-1195, 1999
- [Dobrea, 2001] **D. M. Dobrea**, *Influența stărilor afective asupra senzației de prezență și a procesului de comunicare în medii virtuale*, Revista Inventică, Romanian Journal for Creativity in Engineering and Technology, vol. VI, nr. 34, pp. 18-25, ISSN 1210-3084, 2001
- [Dobrea, 2002a] **D. M. Dobrea**, H. N. Teodorescu, D. Mlynek, *An interface for virtual reality applications*, Romanian Journal of Information Science and Technology, Publishing House of the Romanian Academy, vol. 5, nr. 3, pp. 269–282, ISSN 1453-8245, 2002

- [Dobrea, 2002b] **D. M. Dobrea**, H. N. Teodorescu, *Pattern classification for fatigue state identification*, Fuzzy Systems and Artificial intelligence (Reports and Letters) Journal, Romanian Academy Publishing House, vol. 8, nr. 1-3, pp. 69–84, ISSN 1016-2127, 2002
- [Dobrea, 2002c] **D. M. Dobrea**, H. N. Teodorescu, *A fuzzy system used to derive hand movements from a new virtual joystick interface device*, Scientific Bulletin of The "POLITEHNICA" University of Timisoara, vol. 47, nr. 61, pp. 27-31, 2002
- [Dobrea, 2002d] **D. M. Dobrea**, H. N. Teodorescu, *A new type of non-contact 2D multimodal interface to track and acquire hand position and tremor signal*, In Proceeding of Baltic Electronics Conference, October 6-9, Tallinn, Estonia, pp. 359-362, ISBN 9985-59-292-1, 2002
- [Dobrea, 2002e] **D. M. Dobrea**, *A new type of sensor to monitor the body torso movements without physical contact*, Proceedings of Second European Medical and Biological Engineering Conference, December 4-8, Vienna, Austria, IFMBE Proceedings, Vol. 3, Part 1, pp. 810–811, ISBN 3-901351-62-0, 2002
- [Dobrea, 2002f] **D. M. Dobrea**, *A new type of non-contact 3D multimodal interface to track and acquire hand position and tremor signal*, In Proceedings of European Conference on Intelligent Technologies, July 20-22, Iasi, Romania, ISBN 973-8075-20-3, 2002
- [Dobrea, 2002g] **D. M. Dobrea**, H. N. Teodorescu, M. C. Serban, *Method to remove respiratory artefacts from a system used to assess bio-psychic state of a person*, In Proceeding of Third European Symposium in Biomedical Engineering and Medical Physics, August 30 – September 1, Patras, Greece, lucrare comunicată cu rezumatul publicat (1 pagină), 2002
- [Dobrea, 2002h] **D. M. Dobrea**, Raportul grantului: *Complex bioinstrumental de evaluare a stării biopsihice a persoanelor care desfășoară activități supuse la stres*, grant de cercetare al Consiliului Național al Cercetării Științifice din Învățământul Superior (contract nr.: 33479/17.07.2002, tema 67, cod CNCSIS 67, anul 2002, etapa a I-a din 2002: *Determinarea metodologiei de punere în evidență a stării de oboseala și analiza influențelor externe care pot apărea*), responsabil contract: Asist. drd. ing. **Dan-Marius Dobrea**
- [Dobrea, 2002i] **D. M. Dobrea**, Raportul grantului: *Sistem combinat de filtrare a armonicilor superioare și compensare a puterii reactive*, membru în echipa grantului de cercetare al Consiliului Național al Cercetării Științifice din Învățământul Superior (contract nr.: 33479/17.07.2002, temă 33, cod CNCSIS 380, etapa a II-a din 2002: *Realizarea unui model experimental*), responsabil contract: Prof. dr. ing. D. Alexa
- [Dobrea, 2003a] **D. M. Dobrea**, H. N. Teodorescu, *Hardware adaptive system for movement artifact removing - component of a virtual reality system*, National Symposium on Intelligent Systems and Applications - SIA'2003, 19-20 September, Iași, ISBN 973-97737-2-9, 2003
- [Dobrea, 2003b] **D. M. Dobrea**, Raportul grantului: *Walter Karplus summer research grant 2003*, grant de cercetare al IEEE Computational Intelligence Society (<http://ieeecd.org/page/?sec=6&sub=5>), responsabil contract: Asist. drd. ing. **D. M. Dobrea**
- [Dobrea, 2003c] **D. M. Dobrea**, Raportul grantului: *Complex bioinstrumental de evaluare a stării biopsihice a persoanelor care desfășoară activități supuse la stres*, grant de cercetare al Consiliului Național al Cercetării Științifice din Învățământul Superior

- (contract nr.: 33557 / 01.07.2003, tema 47, cod CNCSIS 75, anul 2003, etapa a II-a din 2003: *Construirea clasificatorului*), responsabil contract: Asist. drd. ing. **D. M. Dobrea**
- [Dobrea, 2003d] **D. M. Dobrea**, Rezumatul raportului de cercetare al grantului *Walter Karplus summer research grant 2003*, publicat în IEEE Connections, The Newsletter of the IEEE Neural Networks Society, vol. 1, nr. 4, pp. 5, ISSN 1543-4281, 2003
- [Dobrea, 2004a] **D. M. Dobrea**, H. N. Teodorescu, *Tremor measurements for clarifying the hypothalamic processes and GABA control*, In Proceeding of the International Federation for Medical and Biological Engineering, Vol. 6, 2004, MEDICON and HEALTH TELEMATICS 2004, "Health in the Information Society", Xth Mediterranean Conference on Medical and Biological Engineering, July 31 – August 5, Ischia, Naples, Italy, ISSN 1727-1983, ISBN 88-7780-308-8, 2004
- [Dobrea, 2004b] **D. M. Dobrea**, A. Sirbu, M. C. Serban, *DSP implementation of a new type of bioinstrumental noncontact sensor*, In Proceeding of 4th European Symposium in Biomedical Engineering, Session 3, Patras, Greece, 25th - 27th June, 2004
- [Dobrea, 2004c] **D. M. Dobrea**, H. N. Teodorescu, *Presentation and analysis of a virtual reality system used in bio-psychical and physical fatigue state analysis and assessment*, Capitol în cartea *Intelligent system in medicine*, Editura "Performantica", Iași, România, editor H. N. Teodorescu, ISBN 973-7994-82-5, 2004
- [Dobrea, 2004d] **D. M. Dobrea**, H. N. Teodorescu, *Classifying and assessing tremor movements for applications in man-machine intelligent user interfaces*, In Proceeding of 9th International Conference on Intelligent User Interfaces and Computer-Aided Design of User Interfaces, Funchal, Madeira, Portugal, January 13-16, pp. 238-240, ISBN 1-58113-815-6, 2004
- [Dobrea, 2004e] **D. M. Dobrea**, N. Cleju, A. T. Sechelea, A. Banar, *Mobile accident warning system – the LoRD*, Scientific Bulletin of The "POLITEHNICA" University of Timisoara, vol. 49, nr. 63, ISSN 1224-6034, 2004
- [Dobrea, 2004f] **D. M. Dobrea**, Raportul grantului: *Sistem bioinstrumental noncontact de: evaluare/analiză cantitativă a pacienților parkinsonieni și de interpretare a limbajului nonverbal*, grant de cercetare al Consiliului Național al Cercetării Științifice din Învățământul Superior (contract nr.: 33371 / 29.06.2004, tema 18, cod CNCSIS 493, anul 2004, etapa a I-a din 2004: *Construirea sistemului bioinstrumental și a interfetei cu calculatorul personal*), responsabil contract: Conf. dr. ing. I. Cleju
- [Dobrea, 2004g] **D. M. Dobrea**, Raportul grantului: *TI Article reward assignment (Tlara)*, grant de cercetare al companiei Texas Instruments, responsabil contract: Ș.l. drd. ing. **D. M. Dobrea**
- [Duda, 2001] R. O. Duda, Peter E. Hart, David G. Stork, *Pattern classification*, John Wiley & Sons Inc., New York, United States of America, ISBN 0-471-05669-3, 2001
- [Dzurec, 2000] L. Dzurec, *Fatigue and relatedness experiences of inordinately tired woman*, Journal of Nursing Scholarship, vol. 32, pp. 339-345, 2000
- [Emmelkamp, 2002] P. M. G. Emmelkamp, M. Krijn, A. M. Hulbosch, S. de Vries, M. J. Schuemie, C. A. P. G. van der Mast, *Virtual reality treatment versus exposure in vivo: a comparative evaluation in acrophobia*, Behaviour Research and Therapy, vol. 40, nr. 5, pp. 509-516, 2002
- [ESC & ASPE, 1996] Task force of the European Society of Cardiology and the North American Society of Pacing and Electrophysiology, *Heart rate variability, standards of*

- measurement, physiological interpretation, and clinical use*, Circulation, vol. 93, nr. 5, pp. 1043-1065, 1996
- [Eshelman, 1991] L. J. Eshelman, J. D. Schaffer, *Preventing premature convergence in genetic algorithms by preventing incest*, In Proceeding of the 4th International Conference on Genetic Algorithms and their Applications, 1991
- [Everett, 1995] H. R. Everett, *Sensors for mobile robots: theory and application*, A K Peters Ltd., Natick, Massachusetts, ISBN 1-56881-048-2, 1995
- [Fahn, 1998] S. Fahn, P. E. Greene, B. Ford, S. B. Bressman, *Handbook of movement disorders*, Current Medicine Inc, ISBN 1573401102 ,1998
- [Fakespace Labs, 2004] Fakespace Labs Inc. company, web server: www.fakespacelabs.com
- [Fels, 1993] S. S. Fels, G. E. Hinton, *GloveTalk: A neural network interface between a DataGlove and a speech synthesiser*, IEEE Transactions on Neural Networks, vol. 4, nr. 1, pp. 2-8, 1993
- [Ferreol, 2000] A. Ferreol, P. Chevalier, *On the behavior of current second and higher order blind source separation methods for cyclostationary sources*, IEEE Transactions on Signal Processing, vol. 48, nr. 6, pp. 1712-1725, 2000
- [Feyer, 2001] A. M. Feyer, *Fatigue: time to recognise and deal with an old problem*, British Medical Journal, vol. 322, pp. 808-809, 2001
- [Fraser, 1986] A. M. Fraser, H. L. Swinney, *Independent coordinates for strange attractors from mutual information*, Physics Review A, vol. 33, nr. 2, pp. 1134-1140, 1986
- [Funahashi, 1989] K. I. Funahashi, *On the approximate realization of continuous mappings by neural networks*, Neural Networks, vol. 2, pp. 183-192, 1989
- [Gantert, 1992] C. Gantert, J. Honerkamp, J. Timmer, *Analyzing the dynamics of hand tremor time series*, Biological Cybernetics, vol. 66, pp. 479-484, 1992
- [Gath, 1989] I. Gath, B. Geneva, *Unsupervised optimal fuzzy clustering*, IEEE Transaction on Pattern Analysis And Machine Intelligence, vol. 11, nr. 7, pp. 773-781, 1989
- [Gerven, 1996] S. Van Gerven, *Adaptive noise cancellation and signal separation with application to speech enhancement*, Ph.D. Thesis, Katholieke Universiteit Leuven, 1996
- [Gerwin, 1991] Gerwin A. L. Meijer, Klaas R. Westerterp, Francois M. H. Verhoeven, Fope ten Hoor, *Methods to assess physical activity with special reference to monitoring sensors and accelerometers*, IEEE Transactions on Biomedical Engineering, vol. 38, nr. 3, pp. 221- 229, 1991
- [Glaus, 1993] A. Glaus, *Assessment of fatigue in cancer and non-cancer patients and in healthy individuals*, Supportive Care in Cancer, vol. 1, pp. 305-315, 1993
- [Gligor, 1986] T. D. Gligor, T. Manea, A. Policec, G. Ciocloada, *Electronica medicala*, Dacia, Cluj, 1986
- [Goldberg, 1987] D. E. Goldberg, *Simple genetic algorithms and the minimal, deceptive problem*, In Davis, L. (Ed.), *Genetic Algorithms and Simulated Annealing*, San Mateo, CA Morgan Kaufmann, pp. 74-88, 1987
- [Goldberg, 1989a] D. E. Goldberg, *Genetic algorithms in search, optimization and machine learning*, Addison Wesley Publishing Company, 1989.
- [Goldberg, 1989b] D.E. Goldberg, *Sizing populations for serial and parallel genetic algorithms*, Proceedings of the Third International Conference on Genetic Algorithms, pp 70-79, 1989

- [Goldberg, 1991] D. E. Goldberg, K. Deb, *A comparative analysis of selection schemes used in genetic algorithms*, In G. J. E. Rawlins, editor, Foundations of Genetic Algorithms, pp. 69-93, Morgan Kaufmann, 1991
- [Goleman, 1996] D. Goleman, *Emotional Intelligence*, Bloomsbury, 1996
- [Gonzalez, 2000] J. G. Gonzalez, E. A. Heredia, T. Rahman, K. E. Barner, G. R. Arce, *Optimal digital filtering for tremor suppression*, IEEE Transactions on Biomedical Engineering, vol. 47, nr. 5, pp. 664-673, 2000
- [Gourlay, 2000] D. Gourlay, K. C. Lun, Y. N. Lee, J. Tay, *Virtual reality for relearning daily living skills*, International Journal of Medical Informatics, vol. 60, nr. 3, pp. 255-261, 2000
- [Greenleaf, 1996] W. J. Greenleaf, *Developing the tools for practical VR applications*, IEEE Engineering in Medicine and Biology, pp. 23-30, March/April 1996
- [Grefenstette, 1986] J.J. Grefenstette, *Optimization of control parameters for genetic algorithms*, IEEE Transactions on Systems, Man, and Cybernetics, vol. 16, nr. 1, pp. 122-128, 1986
- [Grimes, 1983] G. J. Grimes: *Digital data entry glove interface device*, Bell Telephone Lab. Inc., Patent No: 4,414,537, United States, data publicării: 8 noiembrie 1983
- [Groote, 2000] A. de Groote, Y. Verbandt, M. Paiva, P. Mathys, *Measurement of thoracoabdominal asynchrony: importance of sensor sensitivity to cross section deformations*, Journal of Applied Physiology, vol. 88, nr. 4, pp. 1295-1302, 2000
- [Gysels, 2004] E. Gysels, P. Celka, *Phase synchronization for the recognition of mental tasks in a brain-computer interface*, IEEE Transactions on Neural Systems and Rehabilitation Engineering, vol. 12, nr. 4, pp. 406-415, 2004
- [Hacisalihzade, 1989] S. S. Hacisalihzade, M. Mansour, C. Albani, *Optimization of symptomatic therapy in Parkinson's disease*, IEEE Transaction on Biomedical Engineering, vol. 36, pp. 363-72, 1989
- [Haibo, 2003] Y. Haibo, T. Lei, *A genetic-algorithm-based selective principal component analysis (GA-SPCA) method for high-dimensional data feature extraction*, IEEE Transactions on Geoscience and Remote Sensing, vol. 41, nr. 6, pp. 1469-1478, 2003
- [Handels, 2000] H. Handels, J. Ehrhardt, W. Plötz, S. J. Pöppel, *Virtual planning of hip operations and individual adaption of endoprostheses in orthopaedic surgery*, International Journal of Medical Informatics, nr. 58-59, pp. 21-28, 2000
- [Hassoun, 1995] M. H. Hassoun, *Fundamentals of Artificial Neural Networks*, MIT Press, 1995
- [Hava, 1998] M. A. Hava, J. R. Kerkman, T. Lipo, *Carrier-Based PWM-VSI overmodulation strategies: analysis, comparison and design*, IEEE Transactions on Power Electronics, vol. 13, nr. 4, pp. 674 - 689, 1998
- [Haykin, 1996] S. Haykin, *Adaptive filter theory*, Prentice Hall, New Jersey, United States of America, 1996
- [Healey, 1998] J. Healey, P. Rosalind, F. Dabek, *A new affect-perceiving interface and its application to personalized music selection*, Workshop on perceptual User Interfaces, 4-6 noiembrie 1998
- [Hellwig, 2001] B. Hellwig, S. Haussler, B. Schelter, M. Lauk, B. Guschlauer, J. Timmer, C. H. Lucking, *Tremor-correlated cortical activity in essential tremor*, Lancet, Feb 17, vol. 357, nr. 9255, pp. 519-23, 2001

- [Hellwig, 2003] B. Hellwig, B. Schelter, B. Guschlbauer, J. Timmer, C.H. Lucking, *Dynamic synchronisation of central oscillators in essential tremor*, Clinical Neurophysiology, vol. 114, pp. 1462-1467, 2003
- [Heasman, 2002] J. M. Heasman, T. R. D. Scott, L. Kirkup, R. Y. Flynn, V. A. Vare, C. R. Gschwind, *Control of a hand grasp neuroprosthesis using an electroencephalogram-triggered switch: demonstration of improvements in performance using wavepacket analysis*, Medical & Biological Engineering & Computing, vol. 40, pp. 588-593, 2002
- [Herrmann, 2001] C. S. Herrmann, *Human EEG responses to 1-100 Hz flicker: resonance phenomena in visual cortex and their potential correlation to cognitive phenomena*, Experimental Brain Research, vol. 137, pp. 346–353, 2001
- [Hirzinger, 1997] G. Hirzinger, B. Brunner, R. Koeppe, K. Landzettel, J. Vogel, *Teleoperating space robots-impact for the design of industrial robots*, IEEE International Symposium on Industrial Electronics, ISIE'97, Guimarães, Portugal, July 7-11, pp. SS250-SS256, 1997
- [Holland, 1975] J. H. Holland, *Adaptation in natural and artificial systems*, University of Michigan Press, 1975
- [Holland, 1987] J. H. Holland, *Genetic algorithms and classifier systems: foundations and future directions*, Proceedings of the second International Conference on Genetic Algorithms, Massachusetts Institute of Technology, Cambridge, July 28-31, pp. 82-89, 1987
- [Hornik, 1989] K. Hornik, M. Stinchcombe, H. White, *Multilayer feedforward networks are universal approximators*. Neural Networks, vol. 2, pp. 359-366, 1989
- [Huang, 1999] K. Y. Huang, *Neural networks for seismic principal components analysis*, IEEE Transactions on Geoscience and Remote Sensing, vol. 37, nr. 1, pp. 297-311, 1999
- [Immersion, 2004] Immersion company, web server: www.immersion.com
- [Jack, 2001] D. Jack, R. Boian, A. S. Merians, M. Tremaine, G. C. Burdea, S. V. Adamovich, M. Recce, H. Poizner, *Virtual reality-enhanced stroke rehabilitation*, IEEE Transaction on Neural System and Rehabilitation Engineering, vol.9, nr. 3, pp. 308-318, 2001
- [Jakubowski, 2002] J. Jakubowski, K. Kwiatos, A. Chwaleba, O. Stanislaw, *Higher order statistics and neural network for tremor recognition*, IEEE Transaction on Biomedical Engineering, vol. 49, nr. 2, pp. 152-159, 2002
- [James, 1991] K. P. James, L. Peter, G. R. William, *Communication system for deaf, deaf-blind, or non-vocal individuals using instrumented glove*, Patent Nr. 5047952, United States, data publicării: 10 septembrie 1991
- [Janikow, 1991] C. Z. Janikow, Z. Michalewicz, *An experimental comparison of binary and floating point representations in genetic algorithms*, In Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 31-36, 1991
- [Juang, 2002] C.F. Juang, *A TSK-type recurrent fuzzy network for dynamic systems processing by neural network and genetic algorithms*, IEEE Transactions On Fuzzy Systems, vol. 10, nr. 2, pp. 155-170, 2002
- [Jurgens, 1997] J. Jurgens, P. E. Patterson, *Development and evaluation of an inexpensive senzor system for use in measuring relative finger position*, Medical Engineering & Physics, vol. 19, nr. 1, pp. 1-6, 1997
- [Kapoor, 2002] A. Kapoor, R. W. Picard, *Real-time, fully automatic upper facial feature tracking*, In Proceeding of 5th IEEE International Conference on Automatic Face and Gesture Recognition, May 20-21, Washinton D.C., USA, pp. 10-15, 2002

- [Karlsson, 2000] S. Karlsson, Y. Jun, M. Akay, *Time-frequency analysis of myoelectric signals during dynamic contractions: a comparative study*, IEEE Transactions on Biomedical Engineering, vol. 47, nr. 2, pp. 228-238, 2000
- [Kaufman, 1990] L. Kaufman, P. Rousseeuw, *Finding groups in data: an introduction to cluster analysis*, John Wiley & Sons Inc., New York, 1990
- [Keijsers, 2003] N. L. W. Keijsers, M. W. I. M. Horstink, S. C. A. M. Gielen, *Online monitoring of dyskinesia in patients with parkinson's disease*, IEEE Engineering in Medicine and Biology, vol. 22, nr. 3, pp. 96-103, 2003
- [Kim, 2004] K. H. Kim, S. W. Bang, S. R. Kim, *Emotion recognition system using short-term monitoring of physiological signals*, Medical & Biological Engineering & Computing, vol. 42, pp. 419-427, 2004
- [Kordaß, 2001] B. Kordaß, C. Gärtner, *The virtual articulator – concept and development of VR-tools to analyse the dysfunction of dental occlusion*, International Congress Series, Volume 1230, pp. 689-694, June 2001
- [Koster, 1998] B. Koster, M. Lauk, J. Timmer, T. Winter, B. Guschlbauer, F. X. Glocke, A. Danek, G. Deuschl, C. H. Lucking, *Central mechanisms in human enhanced physiological tremor*, Neuroscience Letter, vol. 241, nrs. 2-3, pp. 135-138, 1998
- [Kung, 1994] S. Y. Kung, K. I. Diamantaras, J. S. Taur, *Adaptive principal component extraction (APEX) and applications*, IEEE Transaction on Signal Processing, vol. 42, nr. 5, 1994
- [Lang, 1998] A. E. Lang, A. E. Lozano, *Parkinson's disease, second of two parts*, The New England Journal of Medicine, vol. 339, nr. 16, pp. 1130-1143, 1998
- [Lee, 2000] W. C. Lee, D. S. Hyun, T. K. Lee, *A novel control method for three phase PWM rectifiers using a single current Sensor*, IEEE Transactions on Power Electronics, vol. 15, nr. 5, pp. 861-870, 2000
- [Lee, 2001] J. W. Lee, K. S. Kim, C. G. Song, J. S. Kim, M. H. Lee, *Time-frequency analysis of HRV for patient with vasovagal syncope*, Electronics Letters, vol. 37, nr. 20, pp. 1214-1215, 2001
- [Lee, 2002] Y. Lee, S. H. Zak, *Designing a genetic neural fuzzy antilock-brake-system controller*, IEEE Transactions On Evolutionary Computation, vol. 6, nr. 2, pp. 198-211, 2002
- [Letterie, 2002] G. S. Letterie, *How virtual reality may enhance training in obstetrics and gynecology*, American Journal of Obstetrics and Gynecology, vol. 187, nr. 3, partea 2, pp. S37-S40, 2002
- [Liepins, 1989] G. E. Liepins, M. R. Hilliard, *Genetic algorithms: foundations and applications*, Annals of Operations Research, vol. 21, pp 31-58, 1989
- [Lozano, 1995] A. Lozano, A. Lang, N. Galvez-Jiminez, J. Miyasaki, J. Duff, W. D. Hutchinson, J. O. Dostrovsky, *Efects of GPI pallidotomy on motor function in Parkinson's disease*, Lancet, vol. 346, nr. 8987, pp. 1383-1387, 1995
- [LT1229, 2004] Foaia de catalog a circuitului LT1229 descărcată de pe serverul de web al firmei Linear Technology: <http://www.linear.com/pdf/122930fa.pdf>
- [Lucasius, 1992] C. B. Lucasius, G. Kateman, *Towards solving subset selection problems with the aid of the genetic algorithm*, In Parallel Problem Solving from Nature 2, R. Männer and B. Manderick, (Eds.), pp. 239-247, Amsterdam: North-Holland, 1992

- [MAX187, 2004] Documentația circuitului MAX187, în format PDF, descărcată de pe serverul de web al firmei MAXIM: <http://pdfserv.maxim-ic.com/arpdf/MAX187-MAX189.pdf>
- [MAX295/6, 2004] Documentația circuitului MAX295, în format PDF, descărcată de pe serverul de web al firmei MAXIM: <http://pdfserv.maxim-ic.com/arpdf/MAX291-MAX296.pdf>
- [Mayagoitia, 2002] R. E. Mayagoitia, A. V. Nene, P. H. Veltink, *Accelerometer and rate gyroscope measurement of kinematics: An inexpensive alternative to optical motion analysis systems*, Journal of Biomechanics, vol. 35, nr. 4, pp. 537-542, 2002
- [Malhi, 2004] A. Malhi, R. X. Gao, *PCA-based feature selection scheme for machine defect classification*, IEEE Transactions on Instrumentation and Measurement, vol. 53, nr. 6, pp. 1517-1525, 2004
- [Manson, 2000] A. J. Manson, A. Schrag, A. J. Lees, *Low-dose olanzapine for levodopa induced dyskinesias*, Neurology, vol. 55, nr. 6, pp. 795-799, 2000
- [Manto, 2003] M. Manto, M. Topping, M. Soede, J. S. Lacuesta, W. Harwin, P. Jose, J. Williams, S. Skaarup, L. Normie, *Dynamically responsive intervention for tremor Suppression*, IEEE Engineering in Medicine and Biology, vol. 22, nr. 3, pp. 120-132, 2003
- [Matsuoka, 1995] K. Matsuoka, M. Ohaya, M. Kawamoto, *A neural net for blind separation of nonstationary signals*, Neural Networks, vol. 8, nr. 3, pp. 411-419, 1995
- [Mayagoitia, 2002] R. E. Mayagoitia, A. V. Nene, P. H. Veltink, *Accelerometer and rate gyroscope measurement of kinematics: an inexpensive alternative to optical motion analysis systems*, Journal of Biomechanics, vol. 35, nr. 4, pp. 537-542, 2002
- [Maycock, 1997] G. Maycock, *Sleepiness and driving: the experience of UK car drivers*, Accid Anal Prev, Vol. 29, pp. 153-162, 1997
- [McAuley, 2000] J. H. McAuley, C. D. Marsden, *Physiological and pathological tremors and rhythmic central motor control*, Brain, vol. 123, pp. 1545-1567, 2000
- [McDowell, 1987] F. H. McDowell, J. M. Cederbaum, *The extrapyramidal system and disorders of movement*, Clinic Neurology, Vol. 3, A.B. Baker, R. Joznt, Eds. Philadelphia, PA: J.B. Lippincott, capitolul 38, 1987
- [McKenzie, 2003] F. R. McKenzie, M. Scerbo, J. Catanzaro, M. Phillips, *Nonverbal indicators of malicious intent: affective components for interrogative virtual reality training*, International Journal of Human-Computer Studies, vol. 59, nrs. 1-2, pp. 237-244, 2003
- [McNames, 2002] J. McNames, J. Bassale, M. Aboy, C. Crespo, B. Goldstein, *Techniques for the visualization of nonstationary biomedical signals*, In Proceeding of the 16th International European Association for Speech, Signal and Image Processing Conference Biosignal, vol. 16, pp. 42-45, 2002
- [MDSTF, 2003] Movement Disorder Society Task Force on Rating Scales for Parkinson's Disease, *The unified Parkinson's disease rating scale: status and recommendations*, Movement Disorders, vol. 18, nr. 7, pp. 738-750, 2003
- [MedDict, 2003] The On-line Medical Dictionary: <http://www.graylab.ac.uk/omd/>
- [Meijer, 1991] G. A. L. Meijer, K. R. Westerterp, F. M. H. Verhoeven, H. B. M. Koper, F. ten Hoor, *Methods to assess physical activity with special reference to motion sensors and accelerometers*, IEEE Transactions on Biomedical Engineering, vol. 38, nr. 3, pp. 221-229, 1991

- [Metin, 1996] A. Metin, *The VRT revolution*, IEEE Engineering in Medicine and Biology, vol. 15, nr. 2, pp. 31-33, 1996
- [Miao, 1995] T. Miao, K. Sakamoto, *Effects of weight load on physiological tremor: the AR representation*, Applied Human Science, vol. 14, nr. 1, pp. 7-13, 1995
- [Michalewicz, 1992] Z. Michalewicz, *Genetic algorithms + data structures = evolution programs*, SpringerVerlag, New York, 1992
- [Millán, 2004] José del R. Millán, F. Renkens, J. Mouriño, W. Gerstner, *Noninvasive brain-actuated control of a mobile robot by human EEG*, IEEE Transactions on Biomedical Engineering, vol. 51, nr. 6, pp. 1026-1033, 2004
- [Ming, 2002] H. Y. Ming, D. J. Kriegman, N. Ahuja, *Detecting faces in images: a survey*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 24, nr. 1, pp. 34-58, 2002
- [Moffat, 2001] S. D. Moffat, A. B. Zonderman, S. M. Resnick, *Age differences in spatial memory in a virtual environment navigation task*, Neurobiology of Aging, vol. 22, nr. 5, pp. 787-796, 2001
- [Mohan, 1995] N. Mohan, T. Undeland, W. Robbins, *Power electronics – converters, applications and design*, John Wiley & Sons Inc., 1995
- [Moisés, 2003] Moisés Santillána, Ricardo Hernández-Pérez, Rodolfo Delgado-Lezama, *A numeric study of the noise-induced tremor in a mathematical model of the stretch reflex*, Journal of Theoretical Biology, vol. 222, pp. 99–115, 2003
- [Morimoto, 2000] C. H. Morimoto, M. Flickner, *Real-time multiple face detection using active illumination*, In Proceeding of 4th IEEE International Conference on Automatic Face and Gesture Recognition, March 26 - 30, Grenoble, France, pp. 8-13, 2000
- [Moussavi, 2000] Z. K. Moussavi, M. T. Leopando, H. Pasterkamp, G. Rempel, *Computerized acoustical respiratory phase detection without airflow measurement*, Medical & Biological Engineering & Computing, vol. 38, nr. 2, pp. 198-203, 2000
- [Möcks, 1984] J. Möcks, T. Gasser, P. D. Tuan, *Variability of single evoked potentials evaluated by two new statistical tests*, Electroencephalography Clinical Neurophysiol., vol. 57, pp. 571- 580, 1984
- [Murata, 1996] T. Murata, H. Ishibuchi, *Positive and negative combination effects of crossover and mutation operators in sequencing problems*, In Proceding of IEEE Conference on Evolutionary Computation, Nagoya, Japan, pp. 170-175, May 1996
- [Musha, 1996] T. Musha, Y. Terasaki, T. Takahashi, H. A., Haque, *Numerical estimation of the state of mind*, In Proceeding of the 4th International Conference on Soft Computing October 1-5, Iizuka, Japan, pp. 25-29, 1996
- [Musha, 1997] T. Musha, Y. Terasaki, H. A. haque, G. A. Ivanitsky, *Feature extraction from EEG associated with emotions*, Artificial Life Robotics, vol. 1, pp. 15-19, 1997
- [Mühlenbein, 1993] H. Mühlenbein, D. SchlierkampVoosen, *Predictive models for the breeder genetic algorithm I. Continuous parameter optimization*, Evolutionary Computation, vol. 1, nr. 1, pp. 25–49, 1993
- [Mühlberger, 2001] A. Mühlberger, M. J. Herrmann, G. Wiedemann, H. Ellgring, P. Pauli, *Repeated exposure of flight phobics to flights in virtual reality*, Behaviour Research and Therapy, vol. 39, nr. 9, pp. 1033-1050, 2001
- [Neagoe, 1992] V. Neagoe, O. Stanasila, *Teoria recunoașterii formelor*, Editura Academiei Române, Bucuresti, România, ISBN: 973-27-0341-5, 1992

- [Newball, 2003] A. A. N. Newball, J. A. Velez, J. E. Satizabal, L. E. Múnera, G. Bernabe, *Virtual surgical tele-simulations in ophthalmology*, International Congress Series, vol. 1256, pp. 145-150, June 2003
- [Neuman, 1988] M. R. Neuman, Neonatal Monitoring, *Encyclopedia of medical devices and instrumentation*, New York, John Wiley & Sons Inc., vol. 3, pp. 2015-2025, 1988
- [Nguyen, 1995] L. H. Thi Nguyen, C. Jutten, *Blind source separation for convolutive mixtures*, Signal Processing, vol. 45, nr. 2, pp. 209-229, 1995
- [Norman, 1999] K. E. Norman, R. Edwards, A. Beuter, *The measurement of tremor using a velocity transducer: comparision to simultaneous recordings using transducers of displacement acceleration and muscle activity*, Journal Neuroscience Methods, vol. 92, nr. 1-2, 1999, pp. 41-54
- [Novák, 2001] Z. Novák, P. Krupa, J. Chrastina, *3-D spinal canal reconstruction: virtual reality and postsurgical reality*, International Congress Series, vol. 1230, pp. 57-61, June 2001
- [Oja, 1982] E. Oja, *A Simplified neuron model as a principal component analyser*, Journal of Mathematical Biology, vol. 15, pp. 267-273, 1982
- [Optotrak, 2004] Optotrak 3D motion and position measurement system, <http://www.ndigital.com/optotrak.html>
- [O'Suilleabhain, 1998] P. E. O'Suilleabhain, J. Y. Matsumoto, *Time-frequency analysis of tremors*, Brain, vol. 121, nr. 11, Nov 1998, pp. 2127-2134
- [Pantie, 2000] M. Pantie, L. J. M. Rothkrantz, *Automatic analysis of facial expressions: the state of the art*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 22, nr. 12, pp. 1424-1445, 2000
- [Pal, 1995] N. R. Pal, J. C. Bezdek, *On cluster validity for the fuzzy C-means model*, IEEE Transaction on Fuzzy Systems, vol. 3, nr. 3, pp. 370-379, 1995
- [Pease, 1992] A. Pease, *Body language – how to read other's thoughts by their gesture*, Sheldon Press, 18th edition, London, ISBN: 0-85969-782-7, 1992
- [Pease, 1993] A. Pease, *Limbajul trupului*, Editura Polimark, ISBN 973-95969-6-7, 1993
- [Pease, 1994] A. Pease, A. Garner, *Limbajul vorbirii. Arta conversației*, Editura Polimark, ISBN 973-95969-7-5, 1994
- [Pejovic, 1999] P. Pejovic, Z. Janda, *An analysis of three-phase low-harmonic rectifiers applying the third harmonic current injection*, IEEE Transactions on Power Electronics, vol. 14, nr. 3, pp. 397-407, 1999
- [Peng, 1990] F. Z. Peng, H. Akagi, A. Nabae, *A new approach to harmonic compensation in power systems – a combined system of shunt passive and series active filters*, IEEE Transactions on Industry Applications, vol. 26, nr. 6, pp. 983-990, 1990
- [Perchet, 1998] G. Perchet, M. Lescure, *Magnification of phase-shift for a low frequency laser rangefinder*, Journal of Optics, vol. 29, nr. 3, pp. 229-235, 1998
- [Pham, 2004] D. T. Pham, *Flexible parametrization of postnonlinear mixtures model in blind sources separation*, IEEE Signal Processing Letters, vol. 11, nr. 6, pp. 533-536, 2004
- [Philip, 2001] P. Philip, F. Vervialle, P. Le Breton, J. Taillard, J.A. Horne, *Fatigue, alcohol, and serious road crashes in France: factorial study of national data*, British Medical Journal, vol. 322, pp. 829-830, 2001
- [Picard, 2001a] R. W. Picard, *Affective medicine: technology with emotional intelligence*, capitol în cartea *Future of health technology*, editor Renata G. Bushko, IOS Press, 2001, MIT Media Lab Tech Report No 537, 2001

- [Picard, 2001b] Rosalind W. Picard, Elias Vyzas, Jennifer Healey, *Toward machine emotional intelligence: analysis of affective physiological state*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 23, nr. 10, pp. 1175-1191, 2001
- [Picard, 2001c] R. W. Picard, J. Scheirer, *The galvactivator: a glove that senses and communicates skin conductivity*, In Proceeding of 9th International Conference on Human-Computer Interaction, August 5-10, New Orleans, USA, 2001
- [Piper, 1989] B. F. Piper, A. M. Linsey, M. J. Dodd, S. Ferketich, S. Paul, S. Weller, *The development of an instrument to measure the subjective dimension of fatigue*, capitol în cartea *Key aspects of comfort. Management of pain fatigue and nausea*, editori S. G. Funk, E. M. Tornquist, M. T. Campagne, L. A. Copp, R. A. Wiese, New York, Springer, 1989
- [Principe, 1996] J.C. Principe, C. Wang, H. C. Wu, *Temporal decorrelation using teacher forcing anti-Hebbian learning and its application in adaptive blind source separation*, In the IEEE Proceedings of the Workshop on Neural Networks for Signal Processing, pp. 413-422, 1996
- [Principe, 2000] J. C. Principe, N. R. Euliano, W. C. Lefebvre, *Neural and adaptive systems: fundamentals through simulations*, John Wiley & Sons Inc., United States of America, ISBN: 0-471-35167-9, 2000
- [Poggio, 1990] T. Poggio, F. Girosi, *Networks for approximation and learning*, In Proceeding of the IEEE, vol. 78, nr. 9, 1481-1497, 1990
- [Press, 2002] W. H. Press, S. A. Teukolsky, W. T. Vetterling, B. P. Flannery, *Numerical recipes in C++, the art of scientific computing - 2nd edition*, Cambridge Univ. Press, 2002
- [Raethjen, 2000] J. Raethjen, M. Lindemann, H. Schmaljohann, R. Wenzelburger, G. Pfister, G. Deuschl, *Multiple oscillators are causing parkinsonian and essential tremor*, Movement Disorders, vol. 15, nr. 1, pp. 84-94, 2000
- [Raethjen, 2002] J. Raethjen, M. Lindemann, M. Dümpelmann, R. Wenzelburger, H. Stolze, G. Pfister, C. E. Elger, J. Timmer, G. Deuschl, *Corticomuscular coherence in the 6-15 Hz band: Is the cortex involved in the generation of physiologic tremor?*, Experimental Brain Research, vol. 142, pp. 32-40, 2002
- [Rajaraman, 2000] V. Rajaraman, D. Jack, S. V. Adamovich, W. Hening, J. Sage, H. Poizner, *A novel quantitative method for 3D measurement of Parkinsonian tremor*, Clinical Neurophysiology, vol. 111, nr. 2, pp. 338-343, 2000
- [Rashid, 2001] H. M. Rashid, *Power electronics handbook*, Academic Press, 2001
- [Reimersdahl, 2001] T. van Reimersdahl, I. Hörschler, A. Gerndt, T. Kuhlen, M. Meinke, G. Schlöndorff, W. Schröder, C. H. Bischof, *Airflow simulation inside a model of the human nasal cavity in a virtual reality based rhinological operation planning system*, International Congress Series, vol. 1230, pp. 87-92, June 2001
- [Riitta, 1997] H. Riitta, S. Riitta, *Human cortical oscillations: a neuromagnetic view through the skull*, Trends Neurosci., vol. 20, nr. 1, pp. 44-49, 1997
- [Riva, 1998] Giuseppe Riva, *Virtual environments in neuroscience*, IEEE Transactions on Information Technology in Biomedicine, vol. 2, nr. 4, pp. 275-281, 1998
- [Rhoten, 1982] D. Rhoten, *Fatigue and the postsurgical patient. Concept clarification*, Nursing, Rockville, MD: Aspen Publishers, pp. 277-300, 1982
- [Robb, 1996] R.A. Robb, *VR assisted surgery planning*, IEEE Engineering in Medicine and Biology, vol. 15, nr. 2, pp. 60-69, 1996

- [Roberts, 2000] S. J. Roberts, W. D. Penny, *Real-timebrain-computer interfacing: a preliminary study using Bayesian learning*, Medical & Biological Engineering & Computing, vol. 38, pp. 56-61, 2000
- [Rosen, 1996] J. M. Rosen, H. Soltanian, R. J. Redett, D. R. Laub, *Evolution of virtual reality*, IEEE Engineering in Medicine and Biology Magazine, vol. 15, nr. 2, pp. 16-22, 1996
- [Rothbaum, 2002] B. O. Rothbaum, L. Hodges, P. L. Anderson, L. Price, S. Smith, *Twelve-month follow-up of virtual reality and standard exposure therapies for the fear of flying*, Journal of Consulting and Clinical Psychology, vol. 70, nr. 2, pp. 428-432, 2002
- [Rowe, 1998] D. W. Rowe, J. Sibert, D. Irwin, *Heart rate variability: indicator of user state as an aid to human-computer interaction*, In Proceeding of the SIGCHI conference on Human factors in computing systems, Los Angeles, California, United States, pp. 480-487, January 1998
- [Ruffin, 1994] M. T. Ruffin, M. Cohen, *Evaluation and management of fatigue*, American Family Physician, vol. 50, pp. 625-634, 1994
- [Sato, 1993] T. Sato, J. Ichikawa, M. Mitsuishi, Y. Hatamura, *Micro teleoperation system concentrating visual and force information at operator's hand*, In Proceeding of the 3rd International Symposium on Experimental Robotics, Kyoto, October, pp. 118-124, 1993
- [Sanger, 1989] T. D. Sanger, *Optimal unsupervised learning in a single-layer linear feedforward neural network*, Neural Networks, vol. 2, nr. 7, pp. 459-473, 1989
- [Santillána, 2003] M. Santillána, R. Hernández-Pérez, R. Delgado-Lezama, *A numeric study of the noise-induced tremor in a mathematical model of the stretch reflex*, Journal of Theoretical Biology, vol. 222, pp. 99–115, 2003
- [Schaffer, 1987] J. D. Schaffer, *Some effects of selection procedures on hzperplane sampling by genetic algorithms*, In Genetic Algorithms and Simulated Annealing, L. Davis, ediura Pitman
- [Schaffer, 1989] J. D. Schaffer, R. Caruana, L. J. Eshelman, R. Das, *A study of control parameters affecting online performance of genetic algorithms for function optimization*, In Proceedings of the third International Conference on Genetic Algorithms, George Mason University, United States of America, pp. 51-60, June 1989
- [Scheirer, 1999] J. Scheirer, R. Fernandez, R. W. Picard, *Expression glasses: a wearable device for facial expression recognition*, Conference on Human Factors in Computing Systems, Pittsburgh, Pennsylvania, United States of America, pp. 262-263, 15-20 mai, 1999
- [Schmitendorgf, 1992] W.E. Schmitendorgf, O. Shaw, R. Benson and S. Forrest, *Using genetic algorithms for controller design: simultaneous stabilization and eigenvalue placement in a region*, Technical Report Nr. CS92-9, Department of Computer Science, College of Engineering, University of New Mexico, 1992
- [Schmitt, 2002] M. Schmitt, H. N. Teodorescu, A. Jain, A. Jain, S. Jain, L. C. Jain, *Computational intelligence processingin medical diagnosis*, Heidelberg, New York: Physica-Verlag, 2002
- [Schreier, 2003] P. J. Schreier, L. L. Scharf, *Stochastic time-frequency analysis using the analytic signal: why the complementary distribution matters*, IEEE Transactions on Signal Processing, vol. 51, nr. 12, pp. 3071-3079, 2003
- [SensAble, 2004] Web server of SensAble Technologies Inc.: <http://www.sensable.com>

- [Serban, 2004] M. C. Serban, **D. M. Dobrea**, H. N. Teodorescu, *Evidence for the central oscillators in the physiological tremor generation process*, In Proceeding of 4th European Symposium in Biomedical Engineering, Session 4, Patras, Greece, 25th - 27th June, 2004
- [Sethi, 2003] K. D Sethi, *Tremor*, Current Opinion în Neurology, vol. 16, nr. 4, pp. 481-485, 2003
- [Shirahama, 1999] N. Shirahama, T. Yanaru, N. Masahiro, *An emotion-processing system based on fuzzy inference and subjective observations*, CRC Press, *Soft Computing in Human-Related Sciens*, editată de H. N. Teodorescu, A. Kandel, C. J. Lakhim, pp. 293-334, 1999
- [SIDS Int. Org, 2002] <http://www.sidsinternational.minerva.com.au/intstats.htm>, Web Server of SIDS International Organisation
- [Siemens, 1996] Siemens Matsushita Components GmbH & Co., *Data book library. Capacitors for power electronics*, Munich, Germany, CD-ROM, 1996
- [Silverstein, 2002] J. C. Silverstein, F. Dech, M. Edison, P. Jurek, W. S. Helton, N. J. Epat, *Virtual reality: immersive hepatic surgery educational environment*, Surgery, vol. 132, nr. 2, pp. 274-277, 2002
- [Sloman, 1999] A. Sloman, *Review of "Affective Computing"*, Artificial Intelligence Magazine, vol. 20, nr. 1, pp. 127-133, 1999
- [Someren, 1996] E. J. W. Van Someren, R. H. C. Lazeron, B. F. M. Vonk, M. Mirmiran, D. F. Swaab, *Gravitational artifact in frequency spectra of movement acceleration: Implications for actigraphy in young and elderly subjects*, Journal of Neuroscienece Methods, vol. 65, pp. 55-62, 1996
- [Smets, 1995] E. M. A. Smets, B. Garssen, B. Bonke, J. C. J. M De Haes, *The multidimensional fatigue inventory (MFI) psychometric qualities of an instrument to assess fatigue*, Journal of Psychosomatic Research, vol. 39, pp. 315-325, 1995
- [Sorid, 2000] D. Sorid, S. K. Moore, *Computer-based simulators hone operating skills before the patient is even touched – the virtual surgeon*, IEEE Spectrum, pp. 26-31, July 2000
- [Spears, 1991a] W. M. Spears, K.A. De Jong, *An Analysis of multi-point crossover*, Foundations of Genetic Algorithms, J. E. Rawlins (Ed.), pp. 301-315, 1991.
- [Spears, 1991b] W. M. Spears, K. A. De Jong, *On the virtues of parameterised uniform crossover*, In Proceeding of 4th International Conference on Genetic Algorithms, pp. 230-236, 1991
- [Starkweather, 1990] T. Starkweather, D. Whitley and K. Mathias, *Optimization using distributed genetic algorithms*, Proceedings Parallel Problem Solving From Nature 1, Lecture Notes in Computer Science Nr. 496, pp. 176-185, Springer-Verlag, 1990
- [Stanciulescu, 2001] T. D. Stanciulescu, *Semiotica Limbajului*, curs masterat, Universitatea "A. I. Cuza", Iasi, 2001
- [Straude, 1995] G. Straude, W. Wolf, M. Ott, R. Dengler, W. H. Oertel, *Tremor as a factor in prolonged reaction times of Parkinsonian patients*, Movement Disorders, vol. 10, nr. 2, pp. 153-162, 1995
- [Stucki, 1993] P. Stucki, A. Ghezal, *3D-Copying using surface reconstruction from tomography slices*, capitolul 13 al cărții *Virtual worlds and multimedia*, pp. 169-178, Editted by N. M. Thalmann, D. Thalmann, J. Wiley & Sons, Chichester, New York, 1993

- [Syswerda, 1989] G. Syswerda. *Uniform Crossover in Genetic Algorithms*, In Proceeding of 3rd International Conference on Genetic Algorithms, pp. 2-9, 1989
- [Tanaka, 2002] S. Tanaka, Y. Matsumoto, K. Wakimoto, *Unconstrained and non-invasive measurement of heart-beat and respiration periods using a phonocardiographic sensor*, Medical & Biological Engineering & Computing, vol. 40, nr. 2, pp. 246-252, 2002
- [Tassl, 2000] P. A. Tassl, T. Fieseler, J. Volkmann, J. Dammers, F. Boers, V. Sturm, H. J. Freund and K. Zilles, *Synchronization analysis of MEG current density solutions: Application to Parkinsonian resting tremor*, In Proceeding of 12th International Conference on Biomagnetism, Espoo, Finland, 13-17 august, 2000
- [Technosoft, 2000] Technosoft, *DSP motion control kit user manual*, Switzerland, pp. 7-18, 2000
- [Teodorescu, 1998] H. N. Teodorescu, *Resonant position and motion transducer*, patent nr. 112918, Romania, data publicării: 30 ianuarie 1998
- [Teodorescu, 1999a] H. N. Teodorescu, *Position and movement resonant sensor*, patent nr. 5986549, United States, data publicării: 16 noiembrie 1999
- [Teodorescu, 1999b] H. N. Teodorescu, A. Kandel, *Nonlinear analysis of tremor and application*, Japanese Journal of Medical Electronics and Biological Engineering, vol. 13, nr. 5, pp. 11-20, 1999
- [Teodorescu, 1999c] H. N. Teodorescu, *Position and movement resonant sensor*, patent nr. 9905476, United Europ, data publicării: 4 februarie 1999
- [Teodorescu, 2000a] H. N. Teodorescu, **D. M. Dobrea**, E. Forte, M. Wentland-Forte, *A high sensitivity sensor for proximity measurements and its use in virtual reality applications*, In Proceeding of the European Conference on Intelligent Technologies International Conference, Romania, Iasi, ISBN 973-95156-1-4, 2000
- [Teodorescu, 2000b] H. N. Teodorescu, **D. M. Dobrea**, *A system to monitor the respiration and movements without contact with the body*, In Proceeding of the European Conference on Intelligent Technologies International Conference, Romania, Iași, ISBN 973-95156-1-4, 2000
- [Teodorescu, 2000c] H. N. Teodorescu, D. Mlynek, *Respiration and movement monitoring system*, patent nr. 0004828, United Europ, data publicării: 3 februarie 2000
- [Teodorescu, 2001a] H. N. Teodorescu, M. Chelaru, K. Abraham, I. Tofan, M. Irimia, *Fuyyz methods în tremor assessment, prediction, and rehabilitation*, Artificial Life în Medicine, vol. 21, pp. 107-130, 2001
- [Teodorescu, 2001b] H. N. Teodorescu, *System for determining body position and movement applicable to virtual reality and multimedia applications*, patent nr. 116682, Romania, data publicării: 30 aprilie 2001
- [Texas Instruments, 1997] Texas Instruments, *DSP solutions for BLDC motors application report*, BPRA055, Texas Instruments Incorporated, France, pp. 1-14, 1997
- [Texas Instruments, 2001] Texas InstrumentsTM, *IDK programmer's guide*, SPRU495A, September, 2001
- [Thakor, 1991] N. V. Thakor, Yi-Sheng Yhu, *Application of adapt filter to ECG analysis: Noise cancellation and arrhythmia detection*, IEEE Transaction on Biomedical Engineering, vol. 38, nr. 8, pp. 785-794, 1991
- [Thayer, 2002] J. F. Thayer, J. J. Sollers, E. Ruiz-Padial, J. Vila, *Estimating respiratory frequency from autoregressive spectral analysis of heart period*, IEEE Engineering in Medicine and Biology Magazine, vol. 21, nr. 4, pp. 41-45, 2002

- [Therrien, 1992] C. W. Therrien, *Discrete random signals and statistical signal processing*, Prentice-Hall International Inc., New Jersey, United States of America, ISBN 0-13-217985-7, 1992
- [Thalmann, 1996] N. M. Thalmann, *Direct emotional communication with virtual humans*, In Proceeding of the IEEE International Conference On Image Processing, Lausanne, Switzerland, 16-19 septembrie 1996
- [Timmer, 1998a] J. Timmer, M. Lauk, W. Pfleger, G. Deuschl, *Cross-spectral analysis of physiological tremor and muscle activity, I theory and application to unsynchronized electromyogram*, Biological Cybernetics, vol. 78, pp. 349-357, 1998
- [Timmer, 1998b] J. Timmer, *Modeling noisy time series: Physiological tremor*, International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, vol. 8, nr. 7, pp. 1505-1516, 1998
- [Timmer, 1998c] J. Timmer, M. Lauk, W. Pfleger, G. Deuschl, *Cross-spectral analysis of physiological tremor and muscle activity, II application to synchronized electromyogram*, Biological Cybernetics, vol. 78, pp. 359-368, 1998
- [Timmer, 2000] J. Timmer, S. Häussler, M. Lauk, C. H. Lücking, *Pathological tremors: Deterministic chaos or nonlinear stochastic oscillators?*, Chaos, vol. 10, nr. 1, pp. 278-288, 2000
- [Toffano, 1998] C. Toffano-Nioche, D. Beroule, J. P. Tassin, *A functional model of some Parkinson's disease symptoms using a guided propagation network*, Artificial Intelligence in Medicine, vol. 14, pp. 237-258, 1998
- [Tsai, 2001] M. D. Tsai, M. S. Hsieh, S. B. Jou, *Virtual reality orthopedic surgery simulator*, Computers in Biology and Medicine, vol. 31, nr. 5, pp. 333-351, 2001
- [Tulen, 2001] J. H. M. Tulen, W. H. Groeneveld, J. H. G. J. K. Romers, S. J. A. de Vries, B. J. M. van de Weine, *Ambulatory accelerometry to quantify involuntary movements and ticks in the syndrome of Gilles de la Tourette*, Behavior Research Methods, Instruments, & Computers, vol. 33, nr. 3, pp. 357-363, 2001
- [Tuson, 1996] A. L. Tuson, P. Ross, *Cost based operator rate adaptation: an investigation*, In the proceedings of the 4th International Conference on Parallel Problem Solving From Nature, pp. 461-469, 1996
- [Vapnik, 1995] V. N. Vapnik, *The nature of statistical learning theory*, Springer-Verlag New York, Inc., New York, NY, 1995
- [Verma, 2003] R. C. Verma, C. Schmid, K. Mikolajczyk, *Face detection and tracking in a video by propagating detection probabilities*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 25, nr. 10, pp. 1215-1228, 2003
- [Vélez, 2003] J. A. Vélez, A. A. Navarro Newball, C. A. De La Roche, L. E. Múnera, G. Bernabé, C. Bermúdez, J. F. Jiménez, A. Kopec, *A virtual surgical telesimulation in micrographic dermatologic surgery (MOHS)*, International Congress Series, Volume 1256, Pages 151-155, June 2003
- [Vicon, 2004] VICON system, web server <http://www.vicon.com/main/mocap/index.html>
- [Vigon, 2000] L. Vigon, M. R. Saatchi, J. E. W. Mayhew, R. Fernandes, *Quantitative evaluation of techniques for ocular artefact filtering of EEG waveforms*, IEE Proceedings of Science, Measurement and Technology, vol. 147, nr. 5, pp. 219-228, 2000
- [Viriya, 1987] P. Viriya, H. Kubota, K. Matsuse, *New PWM-Controlled GTO converter*, IEEE Transactions on Power Electronics, vol. 2, nr. 4, pp. 373-381, 1987

- [Vose, 1991] M. Vose, G.E. Liepins, *Schema disruption*, In Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 237-242, 1991
- [VRA, 2004] The official WEB page for the software product Visual Recurrence Analysis is: <http://pw1.netcom.com/~eugenek/download.html>
- [Yan, 1994] W. Y. Yan, U. J. Helmke, B. Moore, *Global analysis of Oja's flow for neural networks*, IEEE Transaction on Neural Networks, vol. 5, nr. 5, pp. 674-683, 1994
- [Wagenaar, 2000] R. C. Wagenaar, R. E. van Emmerik, *Resonant frequencies of arms and legs identify different walking patterns*, Journal of Biomechanics, vol. 33, nr. 7, pp. 853-861, 2000
- [Wang, 2001] Z. Wang, Q. Wang, W. Yao, Liu, *A series active power filter adopting hybrid control approach*, IEEE Transactions on Power Electronics, vol. 16, nr. 3, pp. 301-310, 2001
- [Wiederhold, 1996] M. Wiederhold, B. Wiederhold, *From visual worlds to the therapist's office*, IEEE Engineering in Medicine and Biology, vol. 15, nr. 2, pp. 44-46, 1996
- [Wilhelm, 2003] F. H. Wilhelm, E. M. Handke, W. T. Roth, *Detection of speaking with a new respiratory inductive plethysmography system*, Biomedical Sciences Instrumentation, vol. 39, pp. 136-141, 2003
- [Williamson, 2002] A. M. Williamson, A. M. Feyer, *Moderate sleep deprivation produces impairments in cognitive and motor performance equivalent to legally prescribed levels of alcohol intoxications*, Occupational and Environmental Medicine, vol. 57, pp. 619-655, 2002
- [Windrow, 1975] B. Windrow, J. R. Glover, J. M. McCool, *Adaptive noise cancelling: principles and applications*, Proceedings IEEE, vol. 63, 1975, pp. 1692-1716
- [Whitley, 1989] D. Whitley, *The GENITOR algorithm and selection pressure: why rank-based allocation of reproductive trials is best*, In Proceeding of the 3rd International Conference on Genetic Algorithms, pp. 116-121, 1989
- [Wodaski, 1993] R. Wodaski, *Virtual Reality*, SAMS Publishing, 1993
- [Wolfson, 1998] A. R. Wolfson, M. A. Carskadon, *Sleep schedules and daytime functioning in adolescents*, Child Development, vol. 69, nr. 4, pp. 875-887, 1998
- [Wright, 1991] A. H. Wright, *Genetic algorithms for real parameter optimization*, Foundations of Genetic Algorithms, J. E. Rawlins (Ed.), Morgan Kaufmann, pp. 205-218, 1991
- [Wu, 1987] X. Wu, J. G. Rokne, *Double-step incremental generation of lines and circles*, Computer Vision, Graphics and Image Processing, vol. 37, nr. 3, pp. 331-334, 1987
- [X9250, 2004] Serverul Web al firmei Xicor, documentația circuitului X9250 (în format *.pdf), http://www.xicor.com/pdf_files/x9250.pdf
- [Xicor, 2004] Serverul Web al firmei Xicor, documentația circuitului X9118 (în format *.pdf), <http://www.xicor.com/data/xicor/x9118.pdf>
- [Yoon, 2002] H. S. Yoon, B.R. Moon, *An empirical study on the synergy of multiple crossover operators*, IEEE Transactions On Evolutionary Computation, vol. 6, nr. 2, pp. 212-223, 2002
- [Zawilinski, 1997] K. M. Zawilinski, *Emotional response analyzer system with multimedia display*, Patent Nr. 5,676,139, data publicării: 16 noiembrie 1997
- [Zitzler, 2000] E. Zitzler, K. Deb, L. Thiele, *Comparison of multiobjective evolutionary algorithms: empirical results*, Evolutionary Computation, vol. 8, nr. 2, pp. 173-195, 2000